

[FIG.1]

TRANSMISSION DATA

101 CODING SECTION

102 MODULATION SECTION

5 103 COMBINATION SECTION

104 S/P CONVERSION SECTION

105 IFFT SECTION

106 GI INSERTION SECTION

107 RADIO TRANSMISSION PROCESSING SECTION

10 109 PAPR CALCULATION SECTION

111 PEAK DECISION SECTION

112 INVERSE REPLICA GENERATION SECTION

114 SUB-BAND SELECTION SECTION

116 FFT SECTION

15 110 CUTOFF INSTRUCTION SECTION

113 SUB-BAND SPECIFYING SECTION

123 TRANSMISSION PARAMETER DETERMINING SECTION

124 MARGIN CALCULATION SECTION

RECEIVED DATA

20 122 DECODING SECTION

121 DEMODULATION SECTION

120 FFT SECTION

119 GI REMOVING SECTION

118 RADIO RECEPTION PROCESSING SECTION

25

[FIG.2]

MODULATION SCHEME

NO TRANSMISSION

CODING RATE R

RANGE OF RECEPTION CIR

BELOW -1dB

5 ABOVE 10dB

[FIG.3]

START

ST302 MEASURE PAPR

10 ST303 IS THERE PEAK EQUAL TO OR HIGHER THAN THRESHOLD
 α ?

ST304 GENERATE REPLIC \bar{A}

ST305 GENERATE INVERSE REPLICA

ST306 SELECT SUB-BAND

15 ST308 COMBINE

END

[FIG.4]

THRESHOLD

20 1-SYMBOL TIME
TIME

[FIG.5]

AMPLITUDE

25 THRESHOLD β
THRESHOLD $-\beta$
TIME

1-SYMBOL TIME

[FIG.6]

AMPLITUDE

5 THRESHOLD

TIME

1-SYMBOL TIME

[FIG.7]

10 AMPLITUDE

TIME

1-SYMBOL TIME

[FIG.8]

15 BAND 1

BAND 2

FREQUENCY

COMMUNICATION BAND F3

20 [FIG.9]

RECEPTION CIR

[FIG.10]

BAND 1

25 BAND 2

RECEPTION CIR

MARGIN

[FIG.11]

BAND 1

BAND 2

5 FREQUENCY

COMMUNICATION BAND F3

[FIG.12]

FREQUENCY

10

[FIG.14]

START

ST1402 MEASURE PAPR

ST1403 IS THERE PEAK EQUAL TO OR HIGHER THAN THRESHOLD

15 α ?

ST1404 SET $K=0$

ST1405 SELECT N SUB-BAND ($N=N+K$)

ST1407 COMBINE

ST1409 SELECT K NEW SUB-BANDST1408 IS THERE PEAK EQUAL

20 TO OR HIGHER THAN THRESHOLD α ?

END

[FIG.15]

BAND 1

25 BAND 2

BAND 3

FREQUENCY

COMMUNICATION BAND F3

[FIG.16]

DESIRED BLER

5 RECEPTION CIR

[FIG.17]

BAND 1

BAND 2

10 BAND 3

RECEPTION CIR

MARGIN

[FIG.18]

15 START

ST1802 MEASURE PAPR

ST1803 IS THERE PEAK EQUAL TO OR HIGHER THAN THRESHOLD
 α ?

ST1805 COMBINE

20 ST1806 IS THERE PEAK EQUAL TO OR HIGHER THAN THRESHOLD
 α ?

[FIG.19]

ST1807 SELECT K SUB-BAND

25 ST1808 SELECT N SUB-BAND ($N=N-K$)

ST1809 PREDETERMINED COUNT?

ST1810 IS THERE PEAK EQUAL TO OR HIGHER THAN THRESHOLD

α ?

ST1811 RETURN K SUB-BAND REMOVED IMMEDIATELY BEFORE

ST1813 COMBINE

END

5

[FIG.20]

TRANSMISSION DATA

101 CODING SECTION

102 MODULATION SECTION

10 103 COMBINATION SECTION

104 S/P CONVERSION SECTION

105 IFFT SECTION

2001 CLIPPING SECTION

THRESHOLD INFORMATION

15 106 GI INSERTION SECTION

107 RADIO TRANSMISSION PROCESSING SECTION

109 PAPR CALCULATION SECTION

111 PEAK DECISION SECTION

112 INVERSE REPLICA GENERATION SECTION

20 114 SUB-BAND SELECTION SECTION

116 FFT SECTION

110 CUTOFF INSTRUCTION SECTION

113 SUB-BAND SPECIFYING SECTION

123 TRANSMISSION PARAMETER DETERMINING SECTION

25 124 MARGIN CALCULATION SECTION

RECEIVED DATA

122 DECODING SECTION

121 DEMODULATION SECTION
120 FFT SECTION
119 GI REMOVING SECTION
118 RADIO RECEPTION PROCESSING SECTION

5

[FIG.21]

TRANSMISSION DATA

101 CODING SECTION
102 MODULATION SECTION
10 2101 S/P CONVERSION SECTION
2102 IFFT SECTION
2103 COMBINATION SECTION
106 GI INSERTION SECTION
107 RADIO TRANSMISSION PROCESSING SECTION
15 109 PAPR CALCULATION SECTION
111 PEAK DECISION SECTION
112 INVERSE REPLICA GENERATION SECTION
114 SUB-BAND SELECTION SECTION
110 CUTOFF INSTRUCTION SECTION
20 113 SUB-BAND SPECIFYING SECTION
123 TRANSMISSION PARAMETER DETERMINING SECTION
124 MARGIN CALCULATION SECTION
RECEIVED DATA
122 DECODING SECTION
25 121 DEMODULATION SECTION
120 FFT SECTION
119 GI ELIMINATION SECTION

118 RADIO RECEPTION PROCESSING SECTION

[FIG.22]

START

5 ST2202 MEASURE PAPR
ST2203 IS THERE PEAK EQUAL TO OR HIGHER THAN THRESHOLD
 α ?
ST2204 GENERATE REPLICA
ST2205 GENERATE INVERSE REPLICA
10 ST2206 SELECT SUB-BAND
ST2207 COMBINE
END

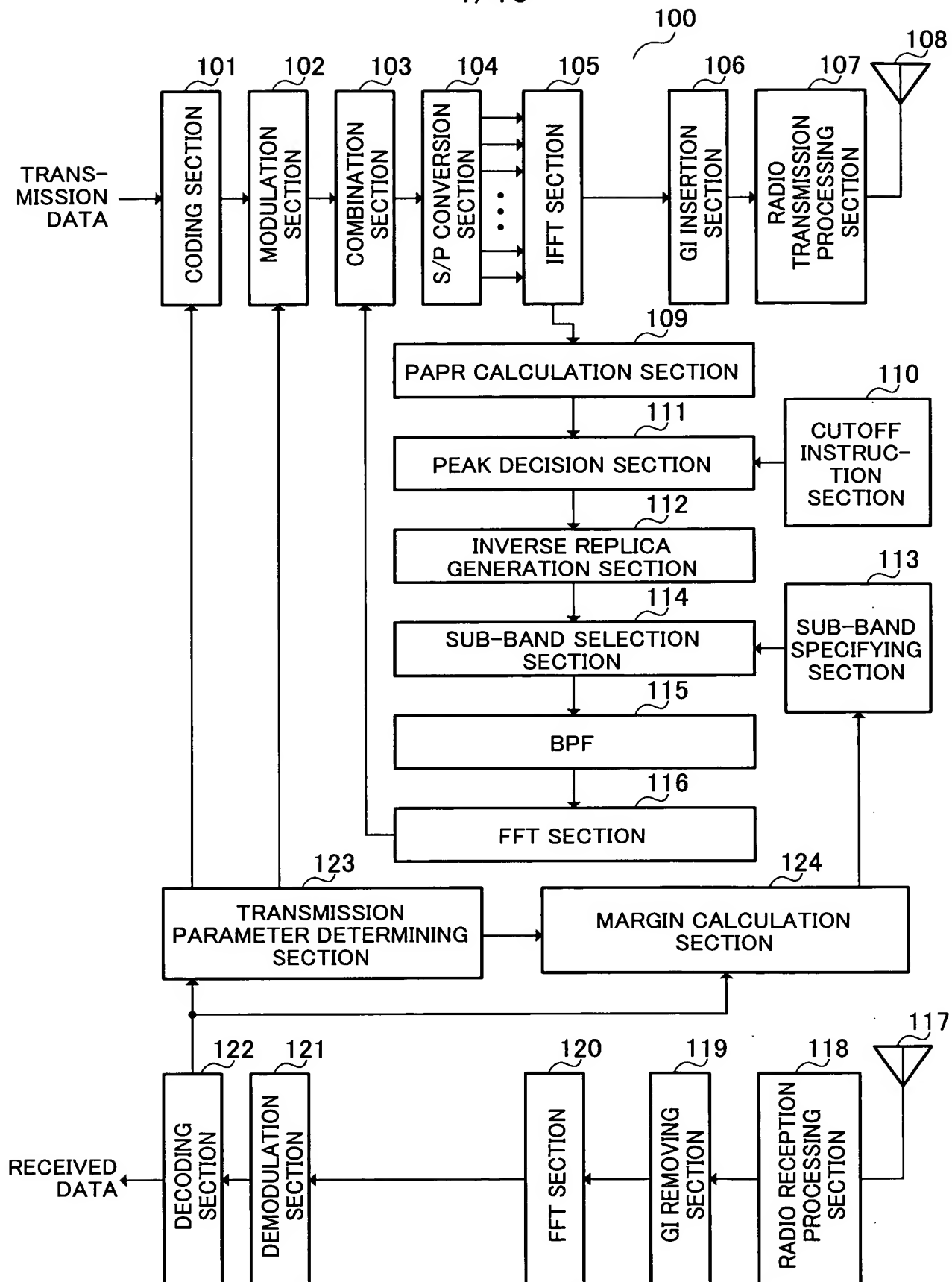


FIG.1

MCS	MODULATION SCHEME	CODING RATE R	RANGE OF RECEPTION CIR
0	NO TRANSMISSION		BELOW -1dB
1	BPSK	$R=1/3$	-1~1dB
2	BPSK	$R=1/2$	1~2.5dB
3	QPSK	$R=1/3$	2.5~3.5dB
4	8PSK	$R=1/3$	3.5~5dB
5	16QAM	$R=1/3$	5~7.5dB
6	16QAM	$R=1/2$	7.5~10dB
7	16QAM	$R=3/4$	ABOVE 10dB

FIG.2

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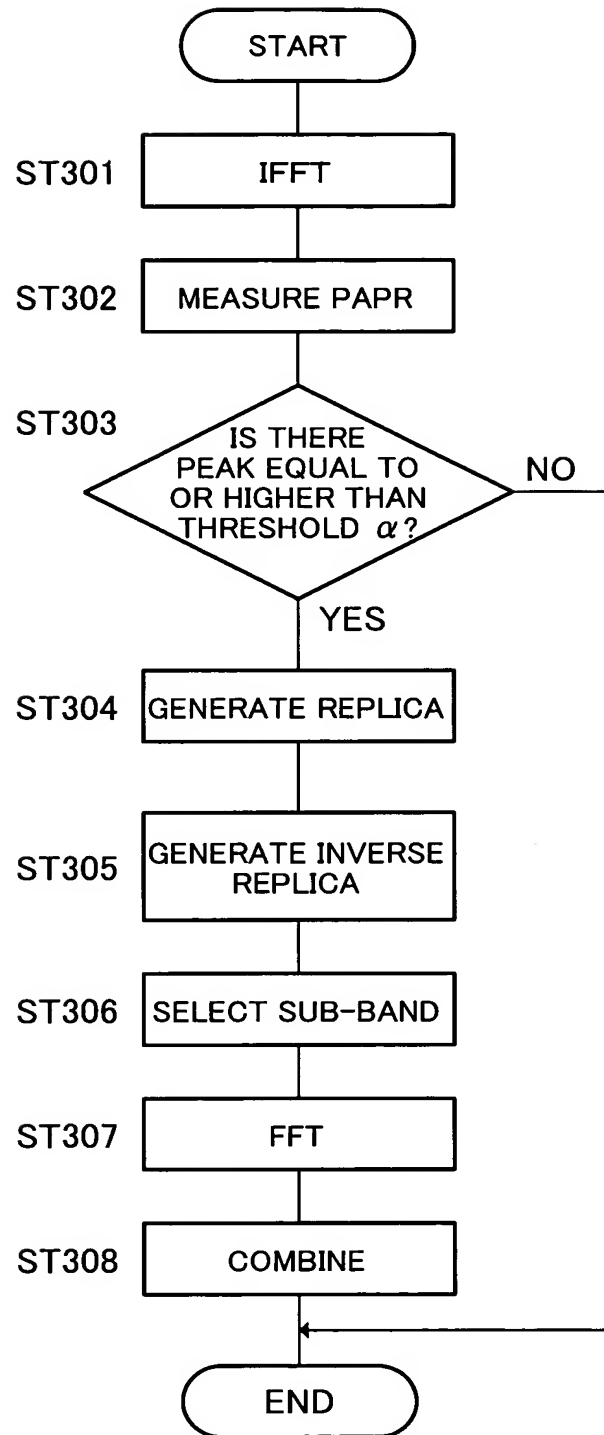


FIG.3

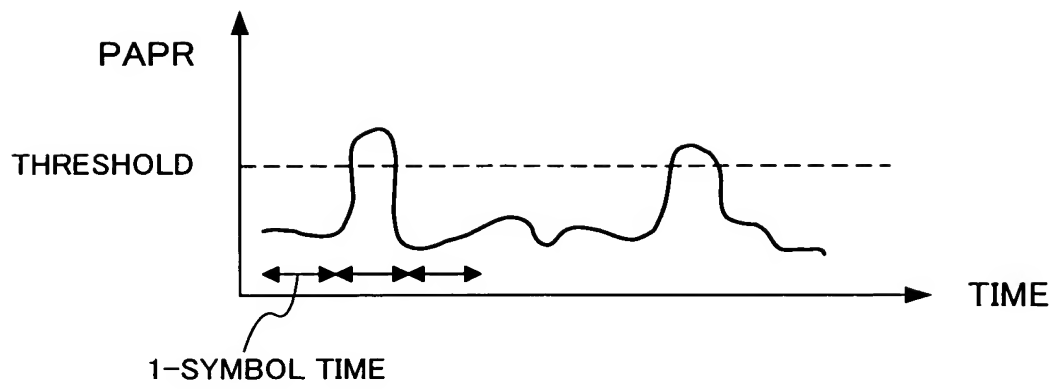


FIG. 4

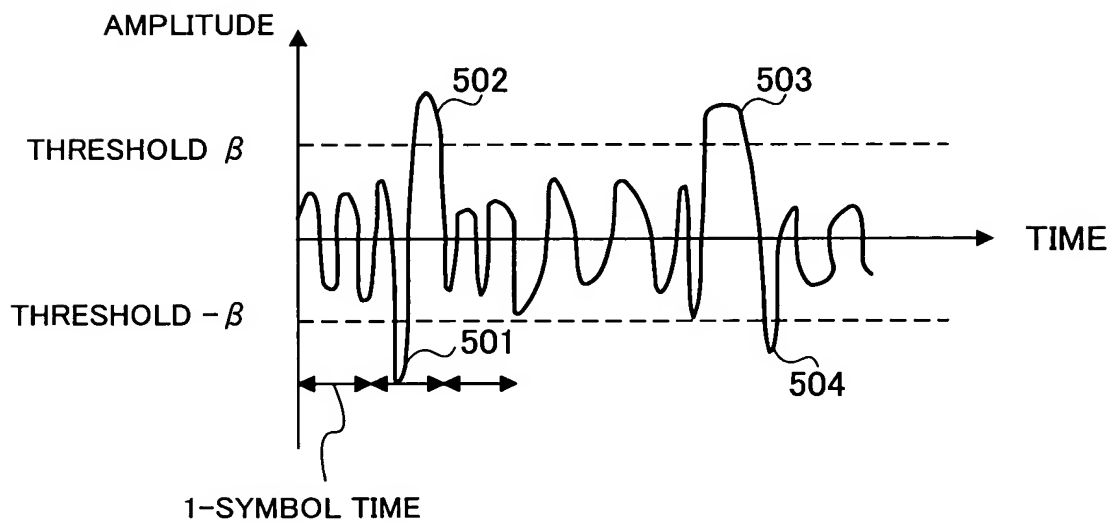


FIG. 5

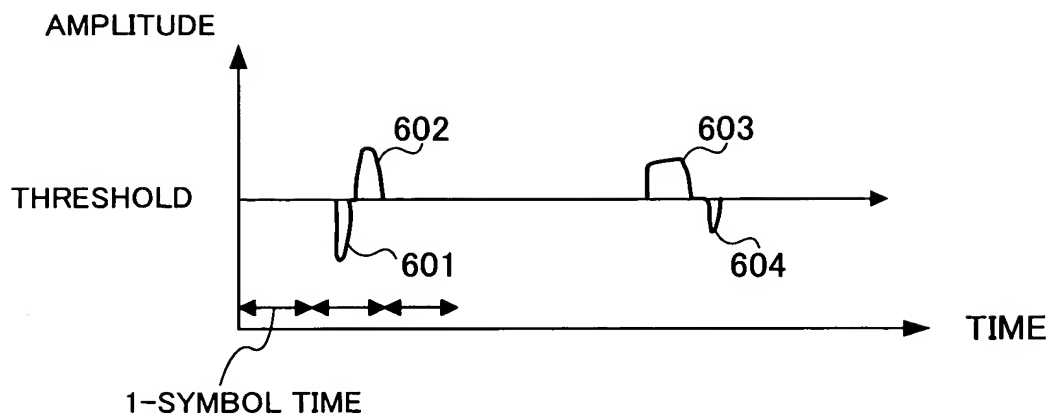


FIG. 6

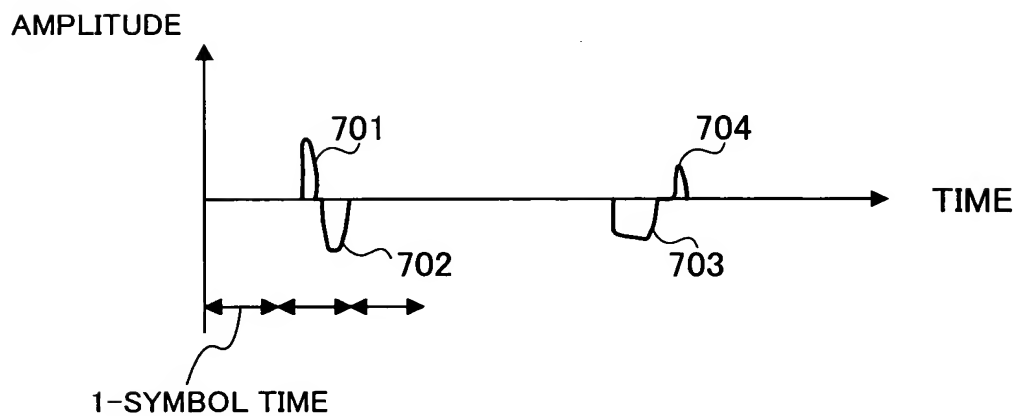


FIG. 7

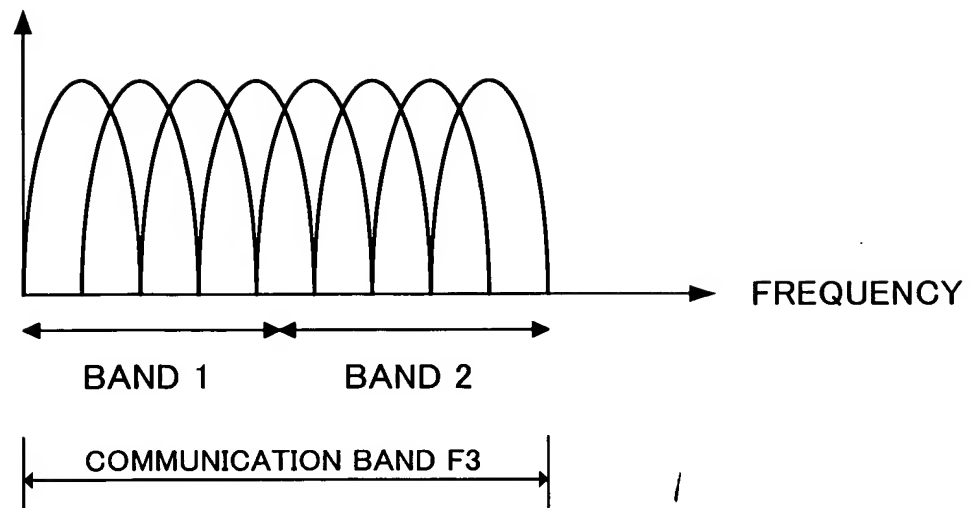


FIG.8

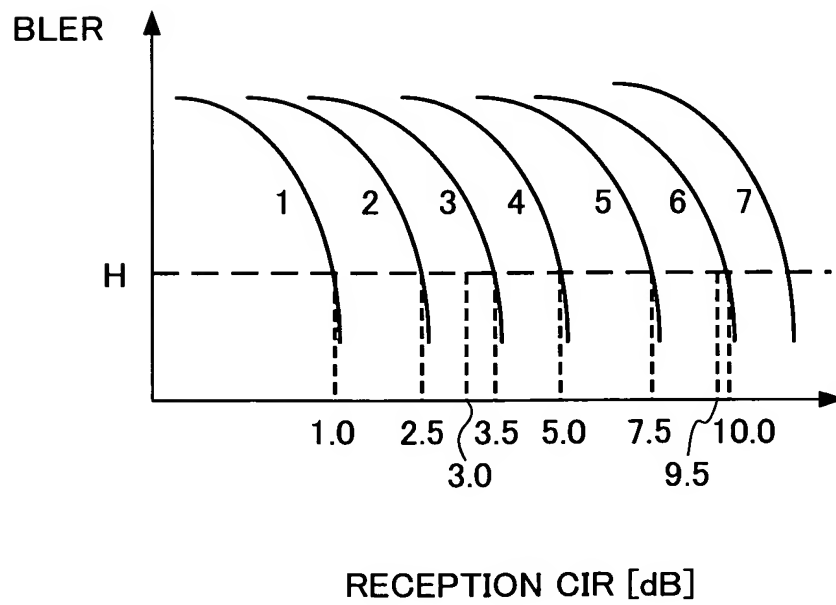


FIG.9

	RECEPTION CIR	MARGIN	MCS
BAND 1	9.5dB	2dB	6
BAND 2	3dB	0.5dB	3

FIG.10

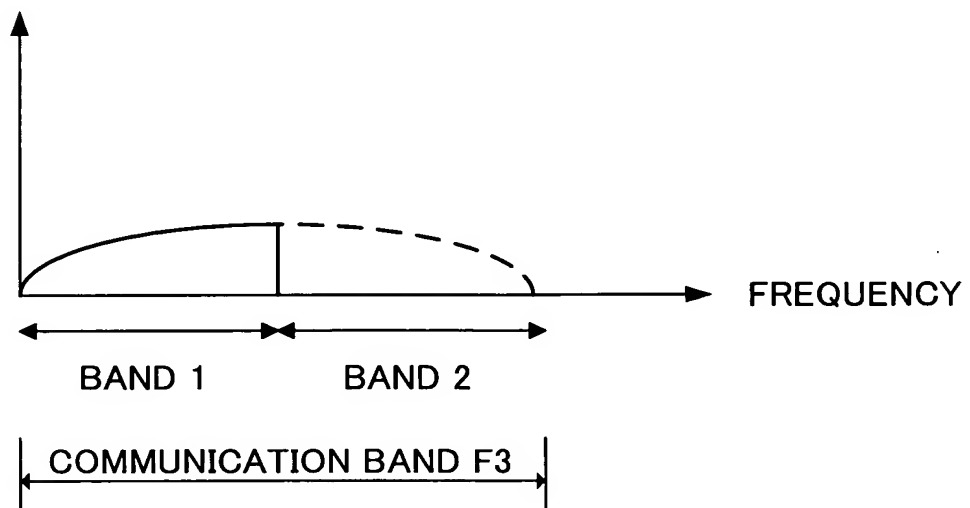


FIG.11

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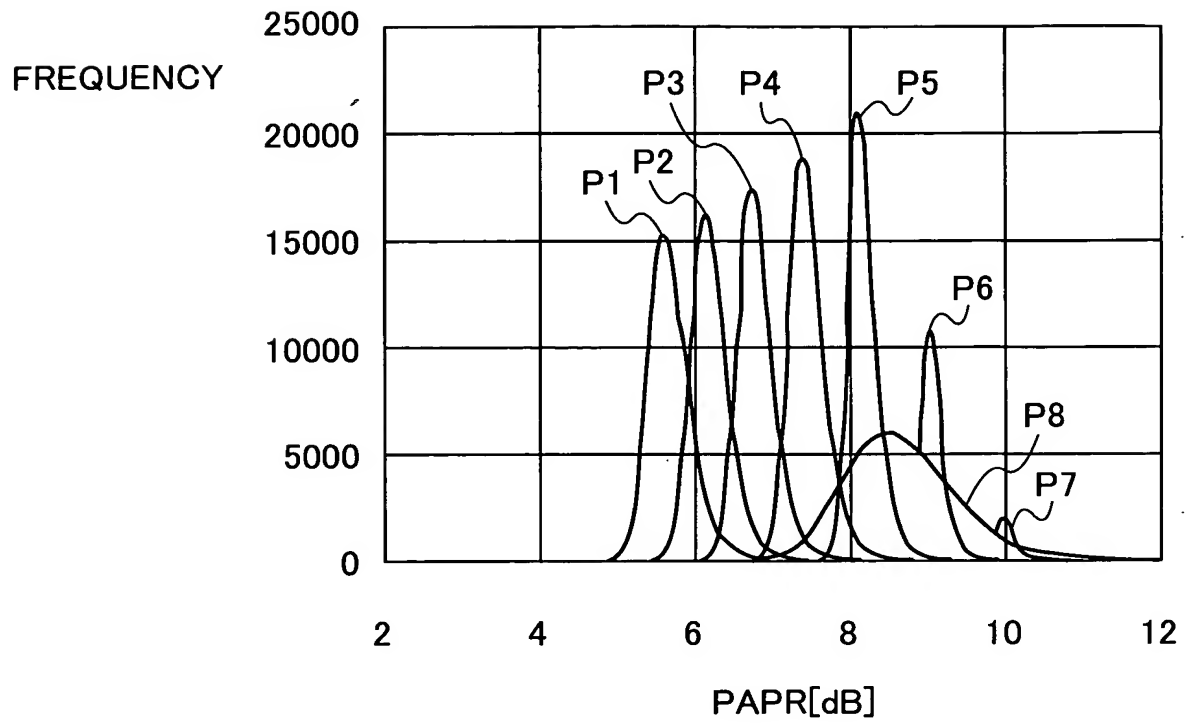


FIG.12

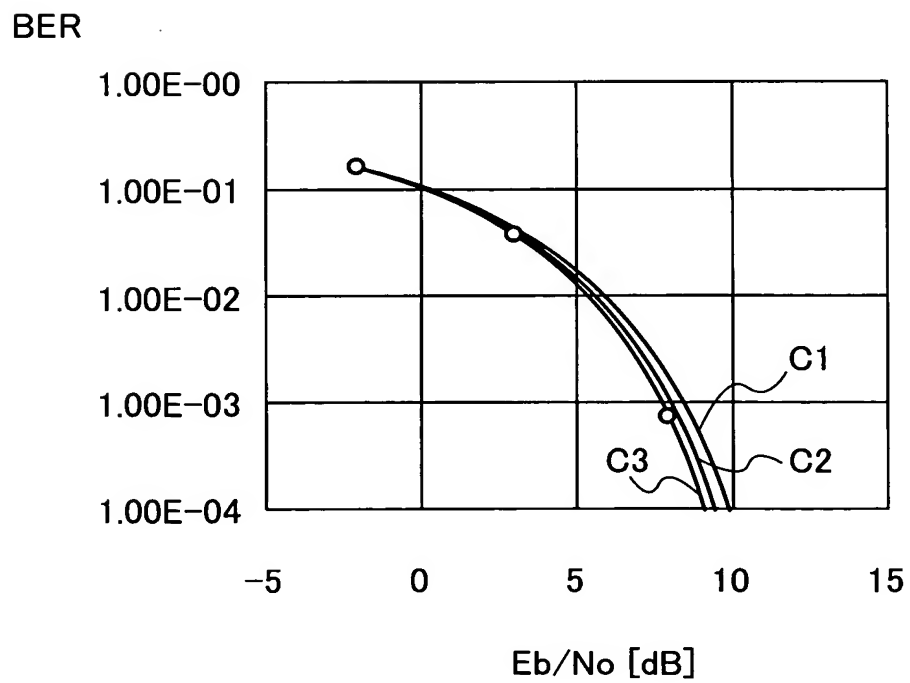


FIG.13

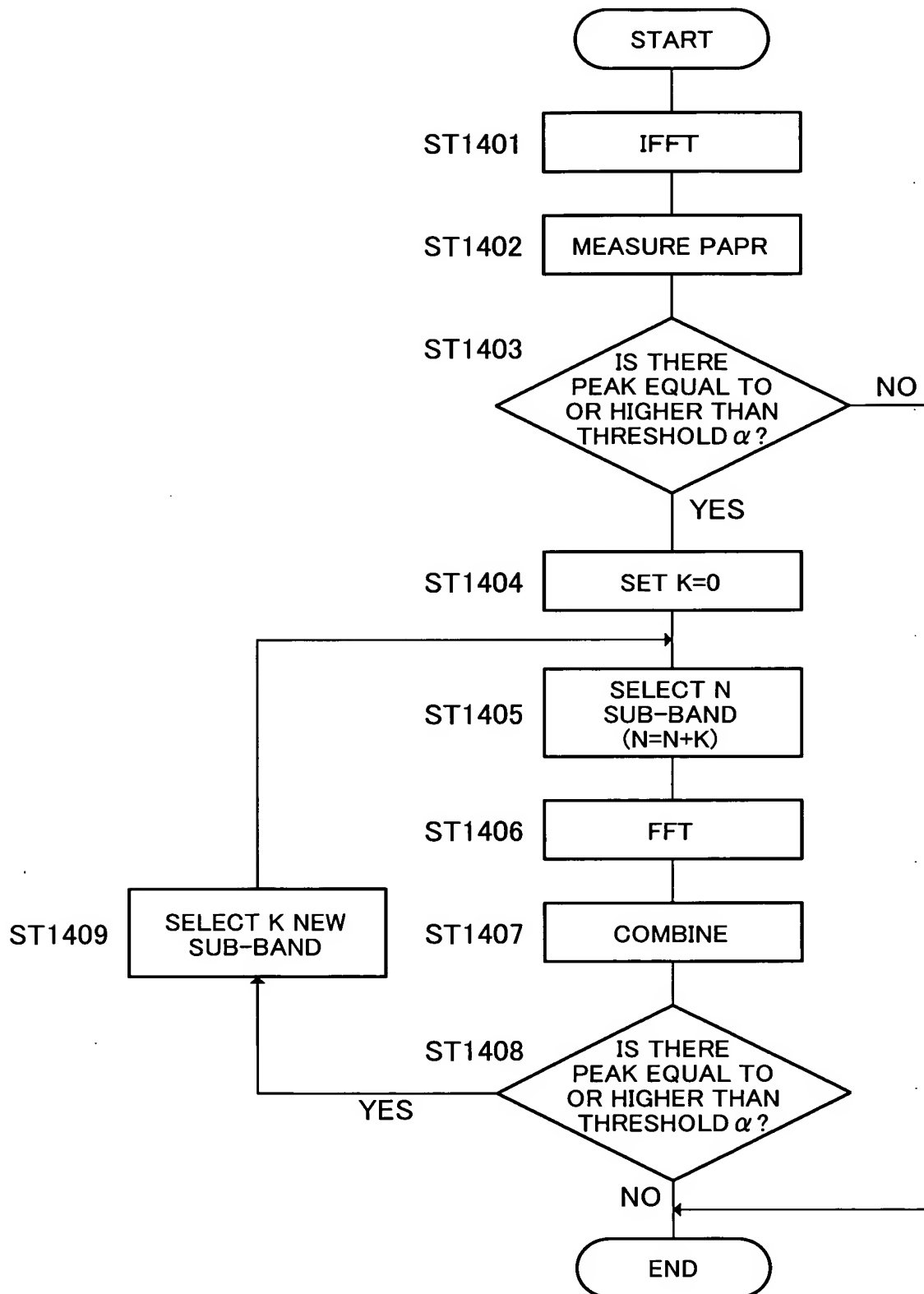


FIG.14

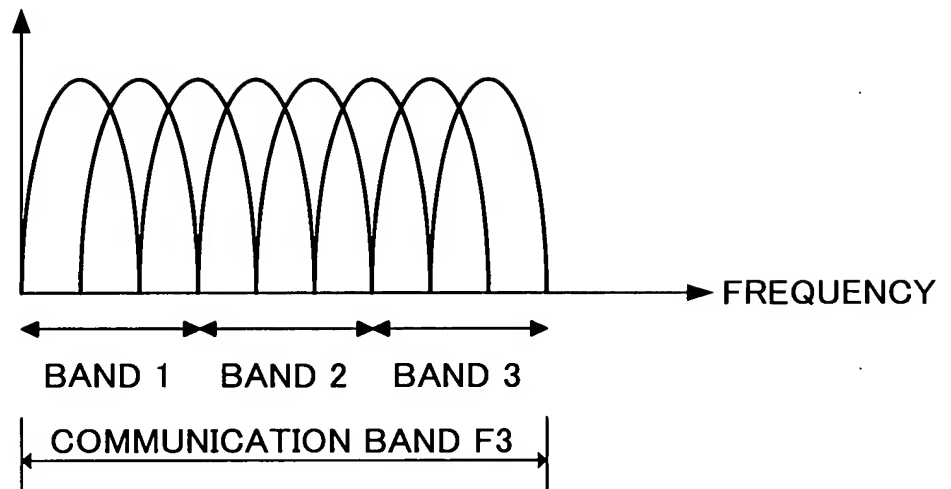


FIG.15

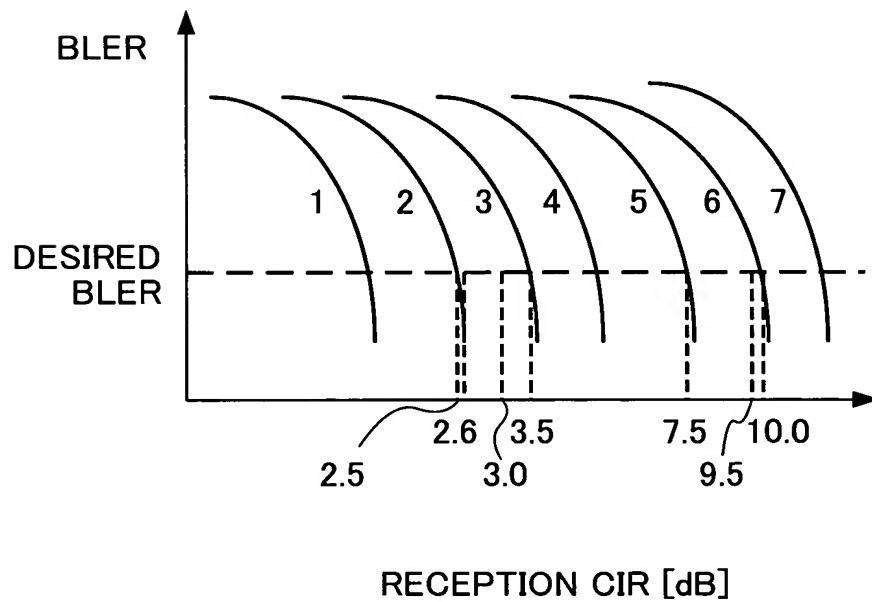


FIG.16

	RECEPTION CIR	MARGIN	MCS
BAND 1	9.5dB	2dB	6
BAND 2	3dB	0.5dB	3
BAND 3	2.6dB	0.1dB	3

FIG.17

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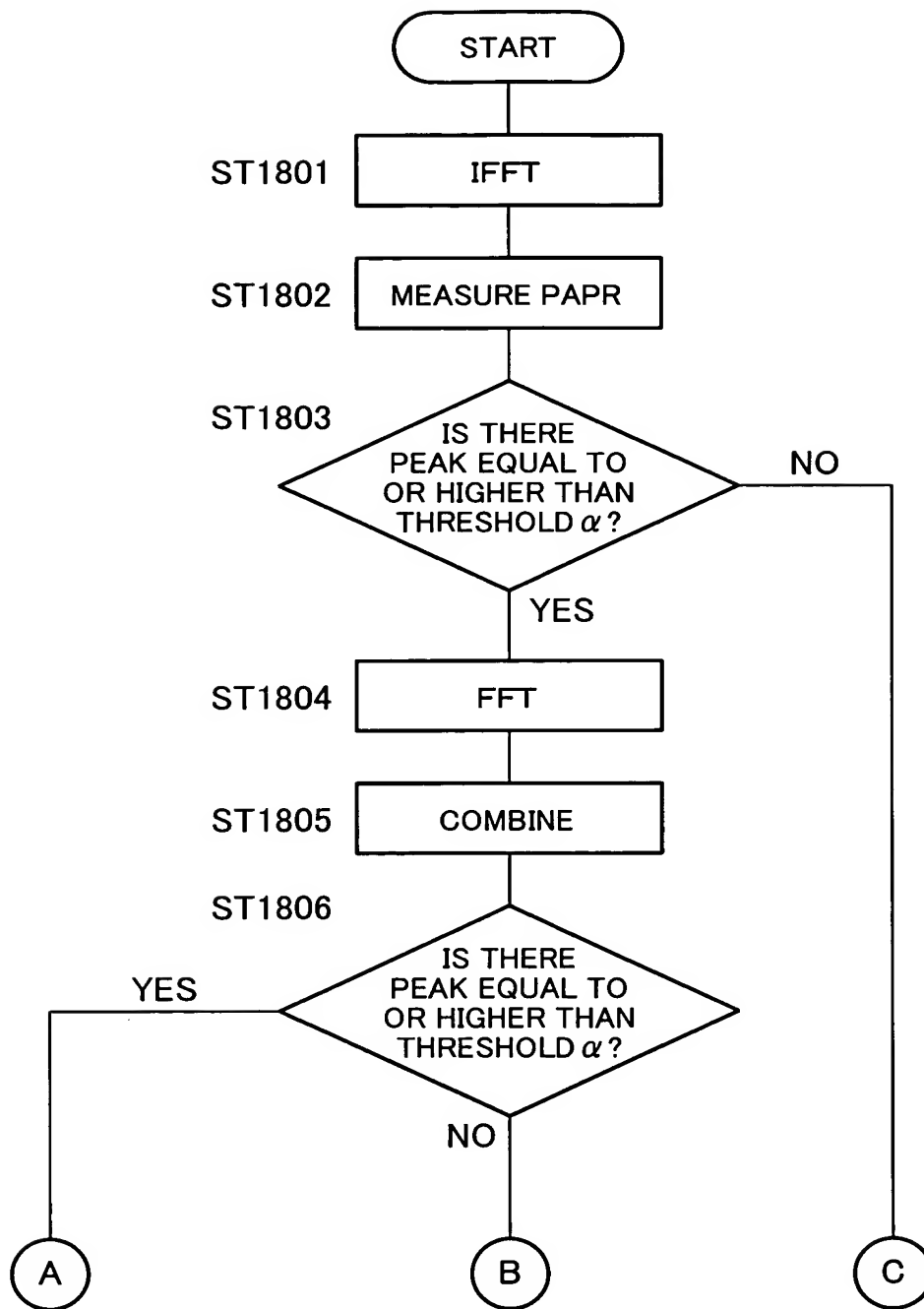


FIG.18

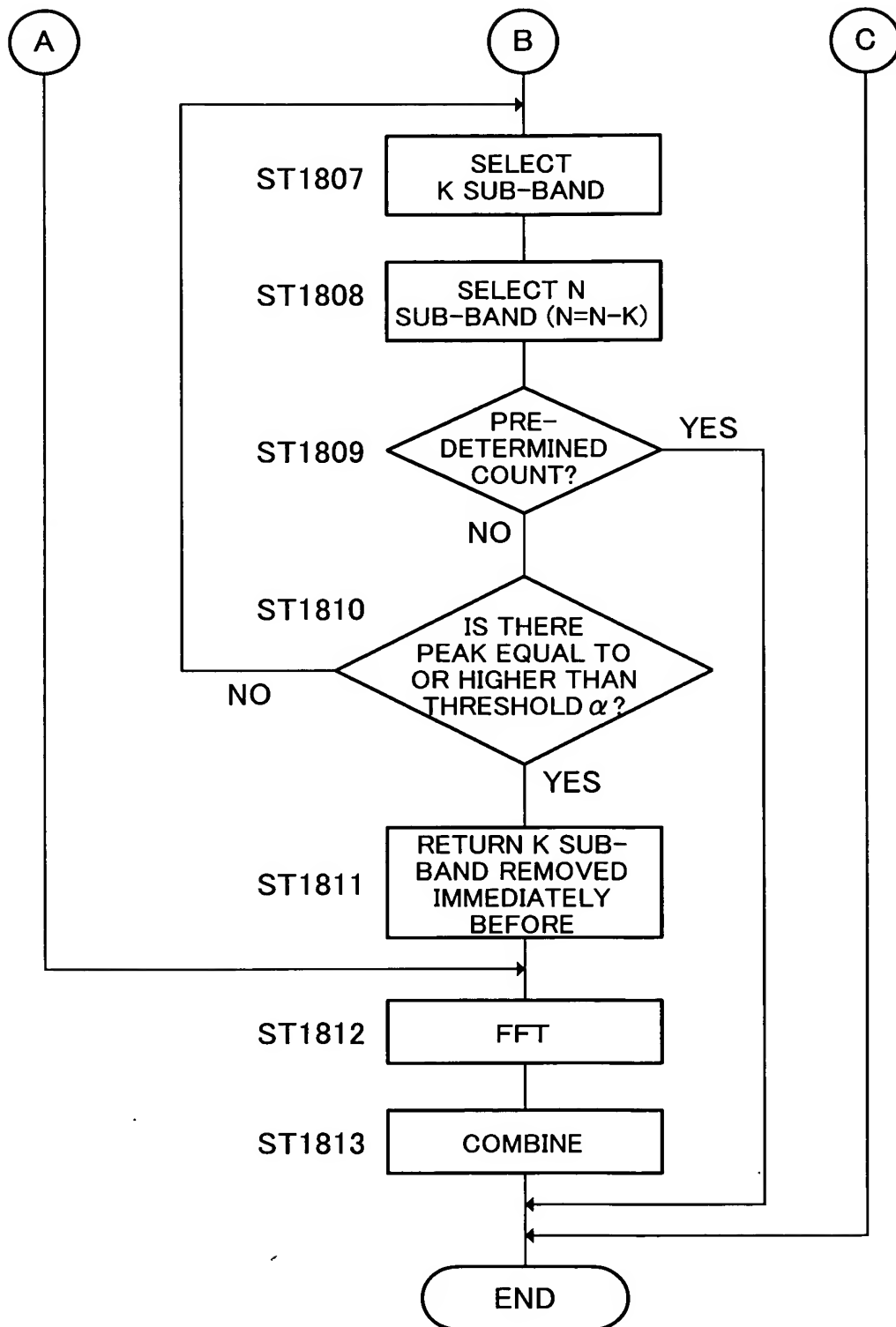


FIG.19

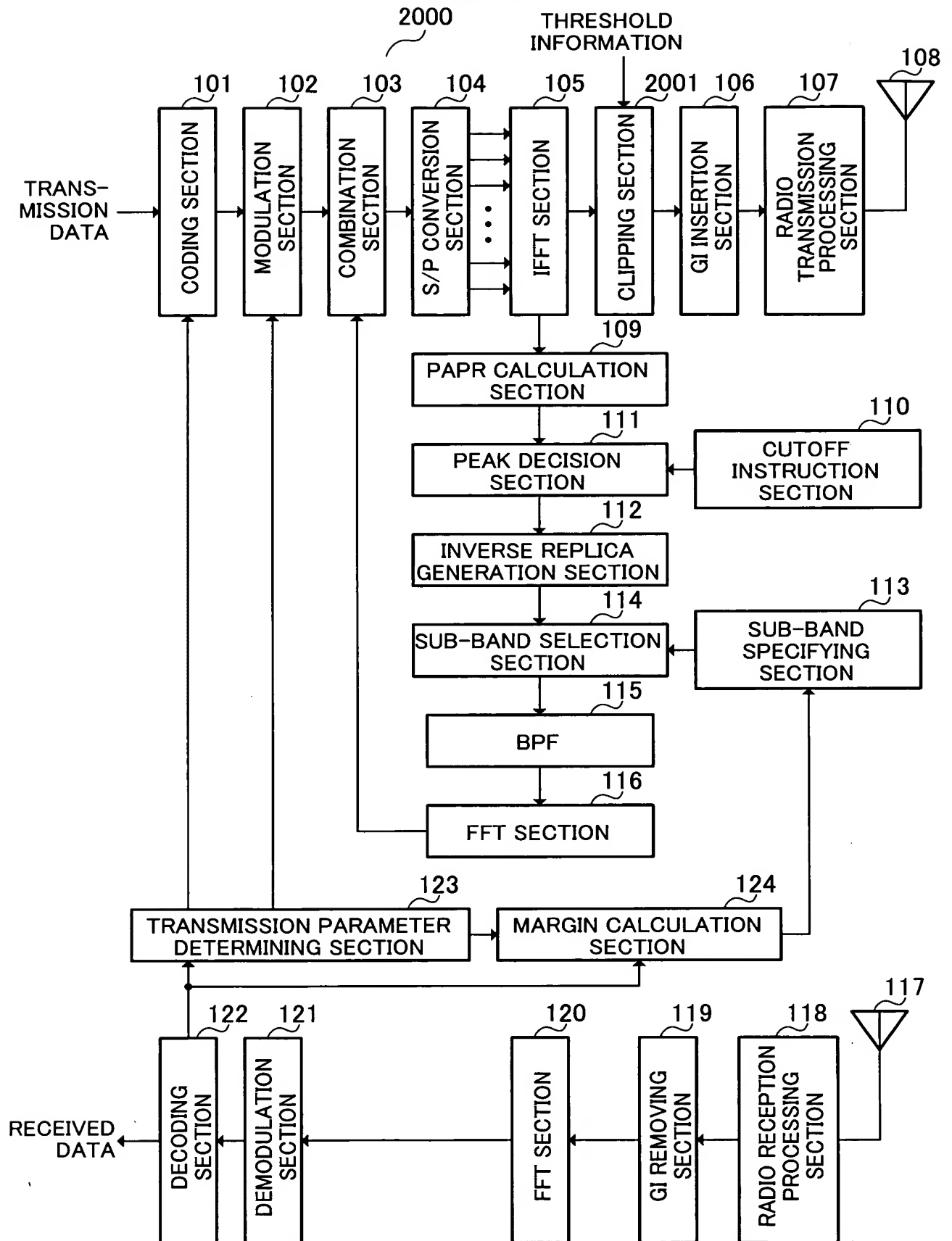


FIG.20

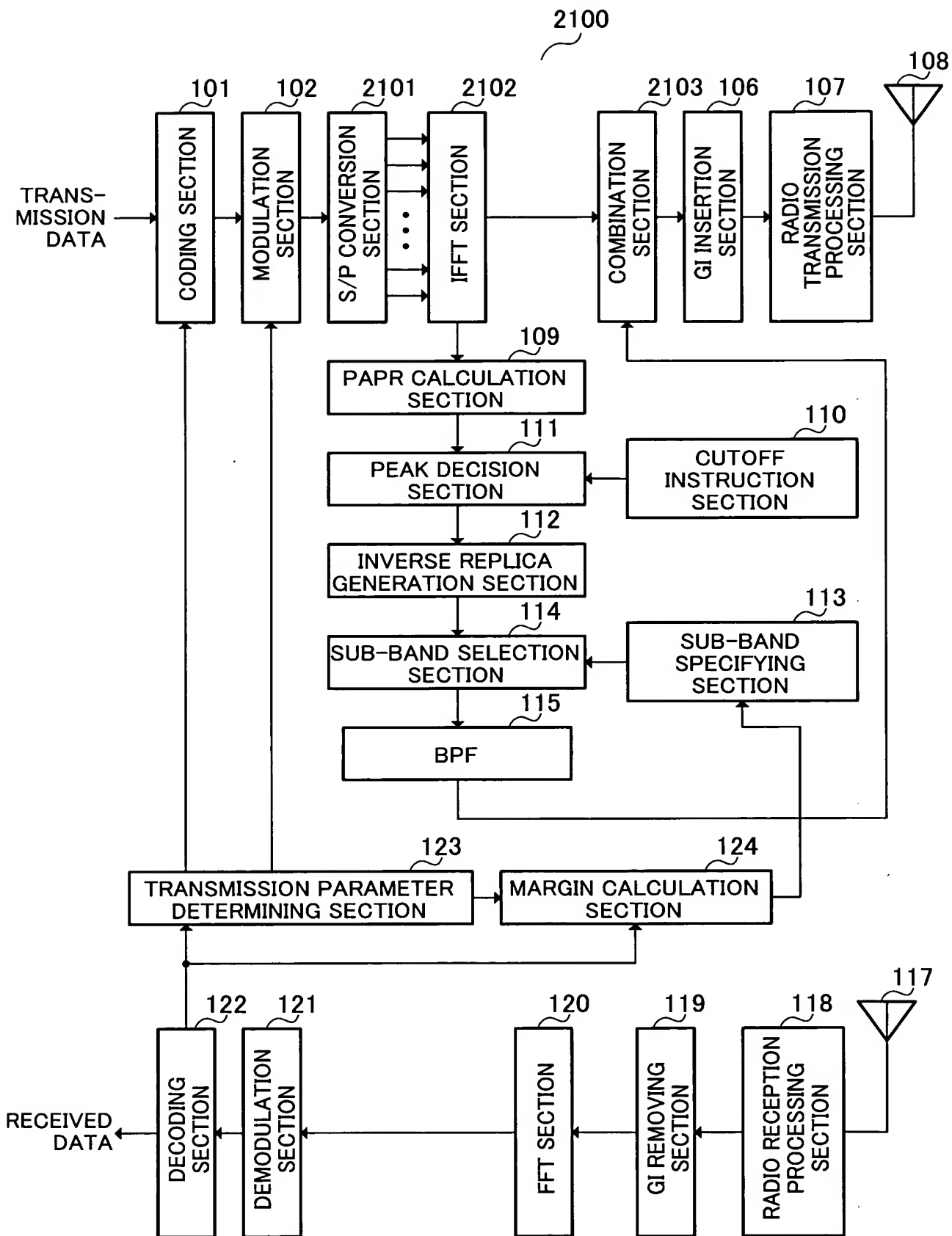


FIG.21

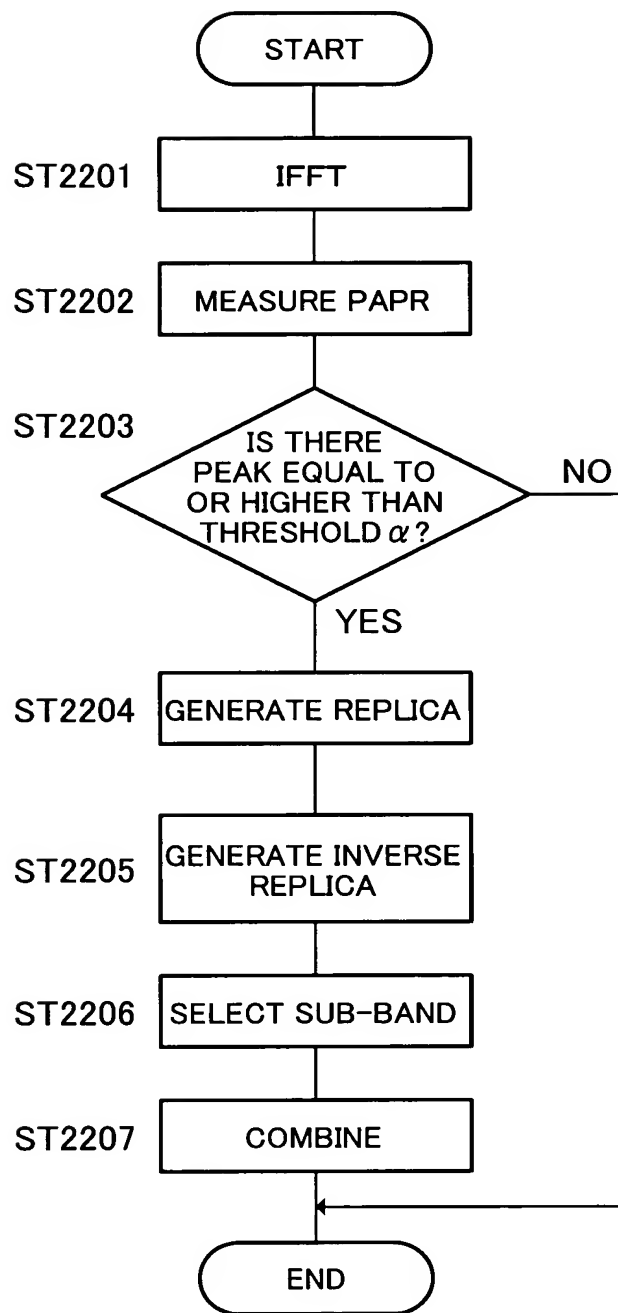


FIG.22